



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

August 23, 2002

Dirk Kempthorne, Governor  
C. Stephen Allred, Director

**CERTIFIED MAIL No. 7000 0520 0016 0850 8880**

Bill Hinson  
Quality Manager  
Western Electronics, Inc.  
1550 S. Tech Lane  
Meridian, ID 83642

RE: AIRS Facility No. 001-00190, Western Electronics Inc., Meridian  
(Final Tier II Operating Permit and Permit to Construct)

Dear Mr. Hinson:

The Department of Environmental Quality (Department) is issuing Tier II Operating Permit and Permit to Construct No. 001-00190 for the Western Electronics Inc. facility located in Meridian, in accordance with the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.400 – 470 and 58.01.01.200 – 228, respectively.

The enclosed permit is effective immediately, and is based on the information contained in your permit application and all relevant comments received during the public comment period.

Michael McGowen of the Boise Regional Office will contact you regarding a meeting with the Department to discuss the permit terms and requirements. In addition to your facility's plant manager, the Department recommends the following representatives attend the meeting: your responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with the permit conditions.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to IDAPA 58.01.23, *Rules of Administrative Procedure Before the Board of Environmental Quality*. A petition may be filed with the Hearings Coordinator, Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, within 35 days of the date of this decision. However, prior to filing a petition for a contested case, the Department encourages you to contact Mike Simon at (208) 373-0502 or [msimon@deq.state.id.us](mailto:msimon@deq.state.id.us) to address any questions or concerns you may have with the enclosed permit.

Sincerely,

  
Katherine B. Kelly  
Administrator  
Air Quality Division

Enclosure

cc: Mike McGowen, Boise Regional Office Sherry Davis, Technical Services Division  
Laurie Kral, EPA - Region 10 Joan Lechtenberg, Air Quality Division

KK/REB/tk Project No. T2-000722 G:\AIR PERMITS\T2\WESTERN ELECTRONICS\FINAL\T2-000722 FINAL PERMIT LTR.DOC



**Air Quality  
TIER II OPERATING PERMIT  
and  
PERMIT TO CONSTRUCT**

**State of Idaho  
Department of Environmental Quality**

**PERMIT NO.:** 001-00190

**AQCR:** 64

**CLASS:** B

**SIC:** 3679

**ZONE:** 11

**UTM COORDINATE (km):** 548.2 , 4826.3

**1. PERMITTEE**

Western Electronics, Inc.

**2. PROJECT**

Facility-wide air quality operating permit and Permit to Construct

**3. MAILING ADDRESS**

1550 S. Tech Lane

**CITY**

Meridian

**STATE**

ID

**ZIP**

83642

**4. FACILITY CONTACT**

Bill Hinson

**TITLE**

Quality Manager

**TELEPHONE**

(208) 955-9700

**5. RESPONSIBLE OFFICIAL**

Var Reeve

**TITLE**

CEO, President

**TELEPHONE**

(208) 955-9700

**6. EXACT PLANT LOCATION**

1550 S. Tech Lane

**COUNTY**

Ada

**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**

Manufacture printed circuit boards

**8. PERMIT AUTHORITY**

This permit is issued according to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.400-470 and IDAPA 58.01.01.200-228. This permit pertains only to emissions of air contaminants, which are regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit.

This permit is not transferable to another person, place, or piece or set of equipment. This permit will expire if construction has not yet begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented in the application and the Idaho Department of Environmental Quality's technical analysis of the supplied information. Changes in design or equipment that result in any change in the nature or amount of emissions may be considered a modification. Modifications are subject to Department review in accordance with IDAPA 58.01.01.200 of the *Rules for the Control of Air Pollution in Idaho*.

  
KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION  
DEPARTMENT OF ENVIRONMENTAL QUALITY

**DATE ISSUED:** AUGUST 23, 2002

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## ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AQCR	Air Quality Control Region
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
Department	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	Environmental Protection Agency
gr	grain (1 lb = 7,000 grains)
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/day	pounds per day
lb/hr	pounds per hour
lb/yr	pounds per year
MMBtu	million British thermal units
NO <sub>x</sub>	nitrogen oxides
O&M	Operations and Maintenance
PCB	printed circuit board
Pb	lead
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PTC	Permit to Construct
scf	standard cubic feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
Sn	tin
SO <sub>2</sub>	sulfur dioxide
Therms/mo	therms per month
Therms/yr	therms per year
T/yr	tons per year
UTM	universal transverse mercator
VOC	volatile organic compound

**AIR QUALITY TIER II OPERATING PERMIT AND PERMIT TO CONSTRUCT No.: 001-00190**

Permittee: Western Electronics, Inc.

Date Issued: August 23, 2002

Location: Meridian, Idaho

Date Expires:

**1. PERMIT SCOPE*****Purpose***

- 1.1 The purpose for this Tier II operating permit and Permit to Construct is to establish facility-wide limits to protect ambient air quality standards.
- 1.2 This permit will be the first air quality permit for this facility.

***Regulated Sources***

- 1.3 Table 1.1 below lists all sources of emissions that are regulated in this permit.

**Table 1.1 REGULATED EMISSIONS SOURCES**

<b>Permit Section</b>	<b>Source Description</b>	<b>Emissions Control(s)</b>
3	Vitronix Re-flow Oven, Model No. SMR 500	None
3	Vitronix Re-flow Oven, Model No. Unitherm 850	None
3	Heller Re-flow Oven, Model No. (unknown)	None
4	Vitronix Wave Solder Machine, Model No. Delta	None
4	Hollis Wave Solder Machine, Model No. (unknown)	None

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## **2. FACILITY-WIDE CONDITIONS**

### ***Fugitive Emissions***

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.  
[IDAPA 58.01.01.650-651, 5/1/94]
- 2.2 Unless specified elsewhere in this permit, the permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.  
[IDAPA 58.01.01.405.01, 07, 5/1/94]
- 2.3 Unless specified elsewhere in this permit, the permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall, at a minimum, include the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.  
[IDAPA 58.01.01.405.01, 07, 5/1/94]

### ***Odors***

- 2.4 No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.  
[IDAPA 58.01.01.775-776, 5/1/94]
- 2.5 Unless specified elsewhere in this permit, the permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall, at a minimum, include the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.  
[IDAPA 58.01.01.405.01, 5/1/94]

### ***Visible Emissions***

- 2.6 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas are the only reason(s) for the failure of the emission to comply with the requirements of this section.  
[IDAPA 58.01.01.625, 5/1/94]

### ***Excess Emissions***

- 2.7 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets, and breakdowns.  
[IDAPA 58.01.01.130-136, 4/5/00]

### ***Monitoring and Recordkeeping***

- 2.8 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Recording of monitoring information shall include, but not be limited to: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the

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company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available to Department representatives upon request in either hard copy or electronic format.

[IDAPA 58.01.01.405.01, 5/1/94]

### ***Reports and Certifications***

- 2.9 Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following:

Air Quality Permit Compliance  
Department of Environmental Quality  
Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706

[IDAPA 58.01.01.211.01, 5/1/94]  
[IDAPA 58.01.01.405.01, 11, 5/1/94]

### ***Open Burning***

- 2.10 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, *Rules for Control of Open Burning*.

[IDAPA 58.01.01.600-616, 5/1/94]

### ***Fuel-burning Equipment***

- 2.11 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 grains per dry standard cubic foot (gr/dscf) of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676-677, 5/1/94]

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**3. RE-FLOW OVENS****3.1 Process Description**

Printed circuit boards (PCB) are manufactured by attaching electronic components to printed boards. During the manufacture of PCBs the boards move through a series of process steps. Parts which are required to be soldered using paste is positioned on the paste and sent to a re-flow oven where the metallic components of the paste is melted and the part becomes attached. This section of the permit covers two Vitronix's and one Heller re-flow ovens.

**3.2 Control Description**

Emissions from these re-flow ovens are uncontrolled.

***Emissions Limits*****3.3 Re-flow Oven Emissions Limits**

Emissions of PM<sub>10</sub>, Pb, and Sn from the re-flow oven stacks shall not exceed any corresponding emissions rate limits listed in the appendix of this permit.

[IDAPA 58.01.01.211.01, 5/1/94]

***Operating Requirements*****3.4 Solder Paste Throughput Limits**

The maximum daily throughput of solder paste for each re-flow oven shall not exceed 157.6 lb/day. The maximum annual throughput of solder paste for each re-flow oven shall not exceed 28.76 tons per any consecutive 12-month period.

[IDAPA 58.01.01.211.01, 5/1/94]

**3.5 Solder Paste Volatilization**

Solder paste volatilization during re-flow shall not exceed 2% by weight.

[IDAPA 58.01.01.211.01, 5/1/94]

**3.6 Solder Paste Composition**

The maximum Pb content of the solder paste used during the re-flow oven process shall not exceed 40% by weight. The maximum Sn content of the solder paste used during the re-flow oven process shall not exceed 70% by weight.

[IDAPA 58.01.01.211.01, 5/1/94]

**3.7 Re-flow Oven Operating Temperature**

The maximum operating temperature of each re-flow oven shall not exceed 600°F (306°C).

[IDAPA 58.01.01.211.01, 5/1/94]



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***Monitoring and Recordkeeping Requirements***

**3.8 Solder Paste Throughput Monitoring**

The permittee shall monitor and record the solder paste throughput for each re-flow oven in pounds per day (lb/day), tons per month (T/mo) and tons per any consecutive 12-month period (T/yr).

**3.9 Circuit Board Monitoring**

In determining the solder paste throughput for each re-flow oven, the permittee shall monitor and record the following information:

- The type and total number of boards panels actually produced per day.
- The average surface area, in square inches, of each board covered in solder paste.
- The maximum amount of solder paste that is applied per square inch to each board type.

**3.10 Solder Paste Monitoring**

The permittee shall maintain documentation of the Pb, Sn, and the non-volatile content (solids content) of the solder paste in percent by weight.

[IDAPA 58.01.01.211.01, 5/1/94]

**3.11 Reflow Oven Temperature Monitoring**

The permittee shall monitor and record the operating temperature for each re-flow oven once during each eight hours of operation.

[IDAPA 58.01.01.211.01, 5/1/94]

**3.12 Operations and Maintenance Manual Requirements**

Within 60 days after the date this permit is issued, the permittee shall have developed an O&M manual for each re-flow oven particulate control, which describes the procedures that will be followed to comply with General Provision 2. This manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.211.01, 5/1/94]

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**4. HOLLIS AND VITRONIX WAVE SOLDER MACHINE****4.1 Process Description**

Printed circuit boards (PCBs) are manufactured by attaching electronic components to printed boards. During the manufacture of PCBs, the boards move through a series of process steps. Some parts are attached to boards through a mechanical process and then the contact areas are fluxed and boards are passed through a solder machine where a wave of liquid solder is applied. This section of the permit covers the Vitronix and Hollis wave solder machine.

**4.2 Control Description**

Emissions from each wave solder machine are uncontrolled.

***Emissions Limits*****4.3 Emissions Limits**

Emissions of PM<sub>10</sub>, Pb, and Sn from the Vitronix and the Hollis wave solder machine stacks shall not exceed any corresponding emissions rate limits listed in the appendix of this permit.

[IDAPA 58.01.01.211.01, 5/1/94]

***Operating Requirements*****4.4 Vitronix Flux Throughput Limits**

The maximum daily throughput of flux for the Vitronix wave solder machine shall not exceed 0.51 lb/day. The maximum annual throughput of solder paste for the Vitronix wave solder machine shall not exceed 186.3 lb/yr.

[IDAPA 58.01.01.211.01, 5/1/94]

**4.5 Hollis Flux Throughput Limits**

The maximum daily throughput of flux for the Hollis wave solder machine shall not exceed 5.32 lb/day. The maximum annual throughput of solder paste for the Hollis wave solder machine shall not exceed 1,941.8 lb/yr.

[IDAPA 58.01.01.211.01, 5/1/94]

**4.6 Solder Composition**

The maximum Pb content of the solder used in any wave solder machine shall not exceed 40% by weight. The maximum Sn content of the solder used in the each wave solder machine process shall not exceed 70% by weight.

[IDAPA 58.01.01.211.01, 5/1/94]

**4.7 Flux Composition**

The non-isopropanol content of the flux used in the Vitronix wave solder machine shall not exceed 25% by weight. The non-isopropanol content of the flux used in the Hollis wave solder machine shall not exceed 18% by weight.

[IDAPA 58.01.01.211.01, 5/1/94]

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**4.8 Solder Machine Temperature**

The maximum temperature of the solder in any solder machine shall not exceed 600°F (306°C).

[IDAPA 58.01.01.211.01, 5/1/94]

***Monitoring and Recordkeeping Requirements***

**4.9 Flux Throughput Monitoring**

The permittee shall monitor and record the flux throughput for each solder machine process in pounds per day (lb/day), pounds per month (lb/mo) and pounds per any consecutive 12-month period (lb/yr).

[IDAPA 58.01.01.211.01, 5/1/94]

**4.10 Solder and Flux Monitoring**

The permittee shall maintain documentation of the Pb, Sn, and non-volatile content (solids content) of the solder used in any solder machine.

[IDAPA 58.01.01.211.01, 5/1/94]

**4.11 Operations and Maintenance Manual Requirements**

Within 60 days after the date this permit is issued, the permittee shall have developed an O&M manual for the Vitronix and the Hollis wave solder machine particulate control, which describes the procedures that will be followed to comply with General Provision 2. This manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.211.01, 5/1/94]

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**5. FUEL-BURNING EQUIPMENT**

**5.1 Process Description**

Fuel-burning equipment is used at the facility to heat the building and for heat used in the printed circuit board manufacturing process. The emission units for this section are the several pieces of equipment that burn natural gas.

**5.2 Control Description**

Emissions from the fuel-burning equipment are uncontrolled.

***Emissions Limits***

**5.3 Emissions Limits**

Emissions of PM, PM<sub>10</sub>, sulfur dioxide (SO<sub>2</sub>), oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compound (VOC) from the fuel-burning equipment shall not exceed any corresponding emissions rate limits listed in the appendix of this permit.

[IDAPA 58.01.01.211.01, 5/1/94]

***Operating Requirements***

**5.4 Fuel Type**

Only natural gas shall be combusted in the fuel-burning equipment.

[IDAPA 58.01.01.211.01, 5/1/94]

**5.5 Throughput Limit**

The fuel-burning equipment shall not exceed the limit of 45.83 million standard cubic feet per year (MMscf/yr) or 459,236 Therms/yr.

[IDAPA 58.01.01.211.01, 5/1/94]

***Monitoring and Recordkeeping Requirements***

**5.6 Fuel Monitoring**

Each month, the permittee shall monitor and record the throughput of natural gas usage for the fuel-burning equipment for that month and for the most recent 12-month period. A compilation of the most recent five years of records shall be kept onsite and shall be made available to Department representatives upon request. The permittee shall monitor and record the following information:

The throughput of natural gas usage in therms per month (Therms/mo.) or million standard cubic feet per month (MMscf/mo) and usage per any consecutive 12-month period therms per year (Therms/yr.) or million standard cubic feet per year (MMscf/yr).

[IDAPA 58.01.01.211.01, 5/1/94]

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**5.7 Operations and Maintenance Manual Requirements**

Within 60 days after the date this permit is issued, the permittee shall have developed an O&M manual for the fuel-burning equipment, which describe the procedures that will be followed to comply with General Provision 2. This manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.211.01, 5/1/94]

**AIR QUALITY TIER II OPERATING PERMIT AND PERMIT TO CONSTRUCT No.: 001-00190**

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**6. APPENDIX - FACILITY-WIDE EMISSION RATE LIMITS****Table 6.1 RE-FLOW AND WAVE MACHINE EMISSION LIMITS**

Western Electronics Emission Limits <sup>a</sup> - Hourly (lb/hr), and Annual <sup>b</sup> (T/yr)						
Source Description	Hourly PM <sub>10</sub> Emissions (lb/hr) <sup>c</sup>	Annual PM <sub>10</sub> Emissions (T/yr) <sup>c</sup>	Hourly Pb Emissions (lb/day)	Annual Pb Emissions (lb/yr)	Hourly Sn Emissions (lb/day)	Annual Sn Emissions (lb/yr)
Each Re-flow Oven	0.09	0.37	1.26	459.9	2.2	803
Vitronix Wave Solder	0.01	0.05	0.11	38.9	0.19	68.07
Hollis Wave Solder	0.04	0.17	0.38	139.78	0.67	244.6

Assuming that all PM<sub>10</sub> consist of lead and tin.<sup>a</sup> As determined by a pollutant-specific U.S. EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.<sup>b</sup> As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emission rate by the allowable hours-per-year that the process(es) may operate(s), or by actual annual production rates.<sup>c</sup> Includes condensibles.**Table 6.2 FUEL-BURNING EQUIPMENT EMISSIONS LIMITS**

Western Electronics Emissions Limits <sup>a</sup> - Annual <sup>b</sup> (T/yr)							
Source Description	Therms /yr	MMscf/yr	PM <sub>10</sub> T/yr <sup>c</sup>	CO T/yr	NO <sub>x</sub> T/yr	SO <sub>x</sub> T/yr	VOC T/yr
Total							
Fuel-burning equipment	458,236	45.824	0.3	2.0	2.3	0.014	0.2

<sup>a</sup> As determined by a pollutant-specific U.S. EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.<sup>b</sup> As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emission rate by the allowable hours-per-year that the process(es) may operate(s), or by actual annual production rates.<sup>c</sup> Includes condensibles.

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**7. GENERAL PROVISIONS**

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the *Rules for the Control of Air Pollution in Idaho*, and the Environmental Protection and Health Act, Idaho Code §39-101 et seq.
2. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain and operate in good working order all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
3. The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
  - To enter upon the permittee's premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
  - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emissions testing (i.e., performance tests) in conformance with state-approved or accepted EPA procedures when deemed appropriate by the Director.
4. Except for data determined to be confidential under Section 9-342A *Idaho Code*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Department of Environmental Quality.
5. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
6. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter; a copy of which shall be forwarded to the Director.
7. This permit shall be renewable on the expiration date, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within 60 days after receipt of the Director's request shall cause the permit to become void.
8. The Director may require the permittee to develop a list of operation and maintenance procedures to be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.